

## Contents to Volume 45

### No. 1

#### Issue contents

- C. Hartmann, H. Taubert, H. Jäckle and M.J. Pankratz**  
A two-step mode of stripe formation in the *Drosophila* blastoderm requires interactions among primary pair rule genes 1
- I.J. Mason, F. Fuller-Pace, R. Smith and C. Dickson**  
FGF-7 (keratinocyte growth factor) expression during mouse development suggests roles in myogenesis, fore-brain regionalisation and epithelial–mesenchymal interactions 3
- R.A. Cameron, L.C. Smith, R.J. Britten and E.H. Davidson**  
Ligand-dependent stimulation of introduced mammalian brain receptors alters spicule symmetry and other morphogenetic events in sea urchin embryos 15
- E.M.L. Rabelo, B.S. Baker and J.R. Tata**  
Interplay between thyroid hormone and estrogen in modulating expression of their receptor and vitellogenin genes during *Xenopus* metamorphosis 31
- T. Morio, I. Takeuchi and M. Tasaka**  
Cooperation of positively and negatively acting promoter elements determines prespore-specific transcription of Dp87 gene in *Dictyostelium* 49
- P. Cardellini, C. Polo and S. Coral**  
Suramin and heparin: aspecific inhibitors of mesoderm induction in the *Xenopus laevis* embryo 73

### No. 2

#### Issue contents

- P. Dollé, V. Fraulob, P. Kastner and P. Chambon**  
Developmental expression of murine retinoid X receptor (RXR) genes 89
- W. Lukowitz, C. Schröder, G. Glaser, M. Hülskamp and D. Tautz**  
Regulatory and coding regions of the segmentation gene *hunchback* are functionally conserved between *Drosophila virilis* and *Drosophila melanogaster* 91
- J. Lef, J.H. Clement, R. Oswald, M. Köster and W. Knöchel**  
Spatial and temporal transcription patterns of the *fork-head* related XFD-2/XFD-2' genes in *Xenopus laevis* embryos 105

### W.-J. Park, J. Liu and P.N. Adler

- The *frizzled* gene of *Drosophila* encodes a membrane protein with an odd number of transmembrane domains 127

### R. Sugaya, S. Ishimaru, T. Hosoya, K. Saigo and Y. Emori

- A *Drosophila* homolog of human proto-oncogene *ret* transiently expressed in embryonic neuronal precursor cells including neuroblasts and CNS cells 139

### P.L. Pfeffer and E.M. De Robertis

- Regional specificity of RAR $\gamma$  isoforms in *Xenopus* development 147

### M. Mével-Ninio, I. Guénal and B. Limbourg-Bouchon

- Production of dominant female sterility in *Drosophila melanogaster* by insertion of the *ovo*<sup>D1</sup> allele on autosomes: use of transformed strains to generate germline mosaics 155

### K. Yoshida, I. Chambers, J. Nichols, A. Smith, M. Saito, K. Yasukawa, M. Shoyab, T. Taga and T. Kishimoto

- Maintenance of the pluripotential phenotype of embryonic stem cells through direct activation of gp130 signalling pathways 163

### J.C. Richardson, A.M.G. Estrabot and H.R. Woodland

- XrelA, a *Xenopus* maternal and zygotic homologue of the p65 subunit of NF- $\kappa$ B. Characterisation of transcriptional properties in the developing embryo and identification of a negative interference mutant 173

### No. 3

#### Issue contents

- T. Thomas and M. Dziadek**  
Expression of collagen  $\alpha$ 1(IV), laminin and nidogen genes in the embryonic mouse lung: implications for branching morphogenesis 191
- C. Kaltschmidt, M. Muller, G. Brem and R. Renkawitz**  
DNase I hypersensitive sites far upstream of the rat tryptophan oxygenase gene direct developmentally regulated transcription in livers of transgenic mice 193
- G.I. Gallicano, C.A. Larabell, R.W. McGaughey and D.G. Capco**  
Novel cytoskeletal elements in mammalian eggs are composed of a unique arrangement of intermediate filaments 203

<b>C. Mendelsohn, S. Larkin, M. Mark, M. LeMeur, J. Clifford, A. Zelent and P. Chambon</b> RAR $\beta$ isoforms: distinct transcriptional control by retinoic acid and specific spatial patterns of promoter activity during mouse embryonic development	227	<b>R.G. Franks and S.T. Crews</b> Transcriptional activation domains of the single-minded bHLH protein are required for CNS midline cell development	269
<b>D.R. Soprano, M. Gyda, III, H. Jiang, D.C. Harnish, K. Ugen, M. Satre, L. Chen, K.J. Soprano and D.M. Kochhar</b> A sustained elevation in retinoic acid receptor- $\beta$ 2 mRNA and protein occurs during retinoic acid-induced fetal dysmorphogenesis	243	Author Index	279
<b>P.S. Leahy, R.A. Cameron, M.A. Knox, R.J. Britten and E.H. Davidson</b> Development of sibling inbred sea urchins: Normal embryogenesis, but frequent postembryonic malformation, arrest and lethality	255	Subject Index	281
		Contents to Volume 45	285

